

A B S T R A C T

The invention concerns a device for temporal subsampling of an OTDM optical signal at a predetermined
5 subsampling frequency, comprising a generator (10) for generating clock pulses transmitted at the predetermined subsampling frequency and at a conversion wavelength λ_H and a wavelength converter device (16) adapted to receive at its input the OTDM optical signal and the clock pulses
10 in order to deliver at its output a subsampled OTDM optical signal at the conversion wavelength. The converter device comprises a linear optical amplifier (18) adapted to receive the OTDM optical signal and the clock pulses propagating in the opposite direction, the
15 maximum linear power of the conversion being adjusted so that it can be less than the peak power of the OTDM optical signal, and a converter (20) of phase modulation into amplitude modulation.